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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,532	09/28/2001	Gregory S. Snider	10008137	2657
	590 12/18/2002			
HEWLETT-PACKARD COMPANY			EXAMINER	
Intellectual Property Administration			ASSAF, FAYEZ G	
P.O. Box 2724			,	
Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER
	•	•	2872	

DATE MAILED: 12/18/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

- · ·	Application No.	Applicant(s)				
•	09/964,532	SNIDER, GREGORY S.				
Office Action Summary	Examiner	Art Unit				
	Fayez G. Assaf	2872				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondenc address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. ED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	<u> </u>					
2a) This action is FINAL . 2b) ☑ Th	is action is non-final.					
3)☐ Since this application is in condition for allowa	ance except for formal matters, I	prosecution as to the merits is				
closed in accordance with the practice under Disposition of Claims	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
4) \boxtimes Claim(s) <u>1-14</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>28 September 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120		(a) (d) ar (f)				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).					
14) Acknowledgment is made of a claim for domest	ic priority under 35 U.S.C. § 119	e) (to a provisional application).				
a) The translation of the foreign language pro						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice of Informa	ary (PTO-413) Paper No(s) al Patent Application (PTO-152)				
U.S. Patent and Trademark Office						

Page 2

Application/Control Number: 09/964,532

Art Unit: 2872

DETAILED ACTION

Claim Objections

Claims 2, 4 and 6 are objected to because of the following informalities:

Claim 2, the phrase "the step of generating" lacks antecedent basis.

Claim 4 inappropriately depends on a higher number claim.

The claim has been examined as being dependent from claim 1.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 8, 9, 10 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Saito et al. (US 5,668,648).

Saito discloses an apparatus and a method of storing holographic interference pattern, comprising the steps of,

Art Unit: 2872

computing the interference pattern based on a mathematical description of an object (line 33 to line 42 of Col. 2), forming a light-permeable medium (photographic plate, line 41, or 40 of Fig. 1) including the interference pattern to modify incident light so that the modified incident light includes a holographic image of the object.

It is noted that the hologram is regenerated by a coherent light source (42 of Fig. 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 6, 7, 12, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Saito in view of Official Notice.

Saito discloses writing the interference pattern to a display rather than printing the pattern on a printable medium. Saito discloses the claimed invention except for the following:

Application/Control Number: 09/964,532

Art Unit: 2872

The step of computing uses QED such that the interference pattern is partitioned, wherein each partition is represented by a weighted sum of basis interference patterns.

Printing the interference pattern on a printable medium.

However, the claimed algorithm of computation is well known in the art, as was acknowledged by the Applicant (on page 7 of the specification), and printing interference patterns onto a recording medium is well known as well.

It would have been obvious, at the time the invention was made, to a person having ordinary skill in the art to adapt such an algorithm because of its efficiency in reducing calculation time. Additionally, utilizing printers to reproduce holograms are conventional in mass production of holograms.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fayez Assaf whose telephone number in (703) 306-5526. The fax number for the organization where this application or proceeding is assigned is (703) 308-7722.

Application/Control Number: 09/964,532

Art Unit: 2872

Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

TA

Fayez Assaf

12/14/02

Audrey Chang

Primary Examiner Technology Center 2800